From the

| INTERNATIONAL SEARCHING AUTHORITY |
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| То: |
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

| 614-050 Republic of Korea | | INTERNATIONAL SEARCHING AUTHORITY | |
|---|--|--|---|
| | | (PCT Rule 43bis.1) | |
| | | Date of mailing (day/month/year) 0 | 4 NOVEMBER 2004 (04.11.2004) |
| Applicant's or agent's file reference PCT2004003 | | FOR FURTHER ACTION See paragraph 2 below | |
| International application No. PCT/KR2004/001809 | International filing date 20 JULY 2004 (20. | • • | Priority date(day/month/year) 19 DECEMBER 2003 (19.12.2003) |
| International Patent Classification (IPC) | or both national classifica | tion and IPC | |
| IPC7 C08J 9/22, B29C 44/00 | | | |
| Applicant | | | |
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| PARK, Jang Won | | | |
| Box No. IV Lack of unity Box No. V Reasoned state citations and e Box No. VI Certain docum | inion ment of opinion with regar of invention ement under Rule 43bis.1(a xplanations supporting such nents cited ets in the international appl | d to novelty, inventive a)(i) with regard to nove th statement ication | step and industrial applicability relty, inventive step or industrial applicability; |
| International Preliminary Examining other than this one to be the IPEA at opinions of this International Search | g Authority ("IPEA") excepted the chosen IPEA has not hing Authority will not be sometime, considered to be a writter appropriate, with amendate expiration of 22 months for | pt that this does not appointed the International so considered. In opinion of the IPEA, ments, before the expire | onsidered to be a written opinion of the oly where the applicant chooses an Authority Bureau under Rule 66.1bis(b) that written the applicant is invited to submit to the ation of 3 months from the date of mailing whichever expires later. |
| 2. For first and details, see notes to Form | | | |

Name and mailing address of the ISA/KR



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WRITTEN OPINION OF THE INTERNATIO SEARCHING AUTHORITY

International application No.
T/KR2004/001809

| Box No. I Basis of this opinion |
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| |
| With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. |
| This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under |
| Rules 12.3 and 23.1(b)). |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: |
| a. type of material |
| a sequence listing |
| table(s) related to the sequence listing |
| b. format of material |
| in wirtten format |
| in computer readable form |
| c. time of filing/furnishing |
| contained in the international application as filed. |
| filed together with the international application in computer readable form. |
| furnished subsequently to this Authority for the purposes of search. |
| In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 4. Additional comments: |
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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| Statement | | |
|-------------------------------|-------------|-------|
| Novelty (N) | Claims 1-27 | YES |
| | Claims none | NO NO |
| Inventive step (IS) | Claims 1-27 | YES |
| | Claims none | NO |
| Industrial applicability (IA) | Claims 1-27 | YES |
| | Claims none | NO |

2. Citations and explanations:

The following documents identified in the International Search Report have been considered for this report:

D1: JP 2002-19047 A (Kanegafuchi Chem. Ind. Co., Ltd.) 22 January 2002

D2: JP 2003-64215 A (Kayama Yoshitoshi) 05 March 2003

Claims 1-27 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest any of the embodiments as specifically set forth in the claims.

The invention described in independent claims 1 and 22 relates to a crosslinked foam which has an inner-cavity structure, and a process of forming the same.

Comparing claims 1 and 22 with D1-D2, the subject matter of these claims differs from the teachings of D1-D2 in that it includes an inner-cavity structure of an arbitrarily shaped surface. According to the present invention, the density of the molded body can be differentiated depending on the portions and the manufacture of a molded body having various characteristics and functions can be possible with the only one step of expanding.

Therefore, the subject matter of independent claims 1 and 22 is considered to be novel and to involve an inventive step; consequently, the subject matter of dependent claims 2-21, 23-27 is also novel and inventive.

Claims 1-27 meet the criteria of PCT Article 33(4), IA, because the invention is industrially applicable.